

Abstract

A sample processing station is created by which the samples filled into the sample wells of a microtiter plate are not only thoroughly mixed by intense shaking at one place and with one device unit, but that can also be subjected to a vacuum treatment without hindering and/or without making it impossible to manipulate the microtiter plate and automatically fill or empty samples, and without the need for conveying the concerned microtiter plate through several different processing stations. To this end, an evacuating plate unit is removably arranged over the microtiter plate, which is set over a shaking table plate, said evacuating plate spanning over the microtiter plate and designed to be sealed off in such a manner that it permits the generation of a vacuum in all of the sample containers. The evacuating plate unit is controllably connectable to a vacuum source or to a directed airflow source via ports which originate from the base of the device.